Date: September 2, 2016

To: Joseph Ebert, AFCEC COR

CC: Don Gronstal, AFCEC; Calvin Cox, CNGS; and Susan Soloyanis, Sologeo

From: Christopher Terpolilli, CB&I Federal Services, LLC.

Subject: Former George AFB - Fall 2016 Basewide Groundwater Sampling Event

The Fall 2016 groundwater monitoring event is scheduled to begin September 26, and will include gauging the depth-to-water (and depth-to-product if present) for all groundwater monitoring and extraction wells and analyzing groundwater samples from selected wells for volatile organic compounds (VOCs), general chemistry, and total dissolved solids (TDS). The methods and analytical suites for groundwater sampling are provided in the Draft UFP QAPP (Shaw, 2012a). The list of monitoring wells to be sampled is provided as Table 1.

The overall objectives of this groundwater monitoring event are to:

- Verify compliance with the OU1 ROD (CG070)
- Verify plume stability and product distribution in support of the PSCAP (SS030 and ST067b)
- Monitor seasonal variation in groundwater elevation and flow patterns
- Monitor concentrations and areal extent of contaminants of concern (COCs), and
- Collect baseline samples of newly installed OT071 wells (MW-159 through MW-163)

AMR sampling is divided into two separate events: OU1 sampling (Fall) and non-OU1 sampling (Spring); except where specified within RODs/LTMPs. As such, Site CG070 constitutes the bulk of the Fall groundwater sampling. There are however, an additional four sites associated with sampling during this Fall 2016 basewide groundwater monitoring event: ST067b, OT071, LF012, and LF044. Table 1 includes the well identification, aquifer, screen depth, previous depth to water, proposed pump placement, associated site(s), analysis to be performed and rationale for sampling in Fall 2016. Note that some of the wells are used to monitor multiple plumes and the data collected will be used for reporting on more than one site. As such, the summation of the well totals listed in the site sections below will not equal the cumulative basewide total listed in the final section (Conclusion) of this Tech Memo. A detailed well total, including associated sites, can be found in Table 1.

312 DIRECTORS DRIVE, KNOXVILLE, TN 37923 MAIN 865-690-3211 • FAX 865-690-3626 **OT069.** Site OT069 is a chlorinated VOC groundwater plume present in the Upper Aquifer beneath the flight line area that is part of OU3. The LTMP for Site OT069 entails annual sampling (typically during Spring) to monitor the chlorinated solvent plume. Although Table 1 indicates four (4) wells are scheduled for Fall sampling at OT069, note that these are "shared" wells and are being sampled for other sites (SS030, OT071, and ST067b). See Table 1 for detailed site breakdown and list of analyses.

SS030. Site SS030 is a non-CERCLA site that contains a freeproduct and a dissolved-phase petroleum hydrocarbon plume present in the Upper Aquifer beneath the flightline area. Monitoring wells associated with the SS030 site will not be sampled for dissolved constituents if free product is observed while gauging the depth-to-water. No wells are proposed for sampling at SS030 during the upcoming Fall 2016 event.

SS084. Groundwater monitoring beneath non-CERCLA Site SS084 is intended to monitor the effectiveness of vadose zone remediation at reducing benzene and MTBE concentrations reaching groundwater. Due to the nature of the site, groundwater monitoring is addressed under SS030 and sampled annually during the Spring event. As such, there are no wells proposed for sampling at SS084 during the upcoming Fall 2016 event.

ST067b. Site ST067b is a non-CERCLA site that contains a free product and a dissolved-phase JP-4 plume present in the Upper Aquifer and is located in the southwestern portion of the Base. Monitoring wells associated with the ST067b site will not be sampled for dissolved constituents if free product is observed while gauging the depth-to-water. As outlined in Table 1, a total of thirty-five (35) wells are proposed for sampling at ST067b during the Fall 2016 event. Note that a portion of these wells are also shared with sites OT069 and OT071 (see Table 1 for detailed site breakdown and list of analyses).

OT071. Site OT071 is a non-CERCLA, dieldrin groundwater plume in both the Upper and Lower Aquifers and is located in the southeast portion of the Base. As outlined in Table 1, a total of twentynine (29) wells are proposed for sampling at OT071 during the Fall 2016 event. Note that a portion of these wells are also used to monitor sites ST067b, OT071, and LF012 (see Table 1 for detailed site breakdown and list of analyses).

ZZ051. Site ZZ051 contains petroleum COCs in groundwater and is located in the Upper Aquifer along the western portion of the Base (part of OU3). Groundwater associated with ZZ051 is currently sampled annually during the Spring event. As such, there are no wells proposed for sampling at ZZ051, during the upcoming Fall 2016 event.

DP003. Site DP003 was a suspected acid and oil burial site located approximately 400 feet north of the northeast end of Runway 3/21. Groundwater monitoring for this landfill is currently being performed

once every 5 years, in accordance with the Landfill LTMMP. Note that the last groundwater monitoring event was conducted in Spring 2014, and the next event will be in Spring 2019.

DP004. Site DP004 is a reported pesticide and oil burial site located about 200 feet east of the northeast end of Runway 3/21. As with Site DP003, groundwater monitoring for this landfill is currently being performed once every 5 years, in accordance with the Landfill LTMMP. Note that the last groundwater monitoring event was conducted in Spring 2014, and the next event will be in Spring 2019.

LF012. Site LF012 is an abandoned landfill covering approximately 12 acres on the eastern side of the Base and is part of OU3. Groundwater associated with LF012 is currently sampled annually during the Spring event and analyzed for VOCs, chloride, nitrate, sulfate, and total dissolved solids. As outlined in Table 1, one (1) well is proposed for sampling at LF012, during the upcoming Fall 2016 event. Note that this well is also used to monitor Site OT071.

LF014. Site LF014 is a landfill covering approximately 50 acres in the northeastern portion of the Base and is part of OU3. Groundwater associated with LF014 is currently sampled annually during the Spring event. As such, there are no wells proposed for sampling at LF014, during the Fall 2016 event.

LF044. Site LF044 is an abandoned landfill covering approximately 0.5 acres in the northeastern portion of the Base and is part of OU3. Groundwater associated with LF044 is currently sampled annually during the Spring sampling event. Although Table 1 indicates that one (1) well is scheduled for Fall sampling at LF044, this is a "shared" well and is being sampled under CG070 (see Table 1 for detailed site breakdown and list of analyses).

FT019. Site FT019 consists of fire-training areas located northwest of Runway 3/21 and includes two active subsites: FT019a and FT019c. Note that groundwater beneath FT019 is part of OU1 and is sampled under Site CG070 during the annual Fall event. As such, all three (3) Site FT019 wells (FT-03, FT-04, and FT-05) are listed under Site CG070 in Table 1.

CG070. Site CG070 consists of a TCE groundwater plume present in the Upper and Lower Aquifers in the northeastern portion of the former George AFB and is part of OU1. As outlined in Table 1, a total of eighty-eight (88) wells are proposed for sampling at CG070 during the Fall 2016 event. Note that one well is also used to monitor LF014 and LF044 (see Table 1 for detailed site breakdown and list of analyses).

Fall 2015 Variations. Basewide locations that were sampled in Fall 2015, but will not be sampled in Fall 2016, are listed below:

- EX-01 (SS030): added for a single event in Fall 2015.
- EX-10 (SS030): added for a single event in Fall 2015.

- MW-28 (OT069b/SS030): LTMP trigger well to be moved to Spring sampling rotation with other non-OU1 wells
- MW-30 (OT069c/SS030): annual, LTMP well to be moved to Spring sampling rotation with other non-OU1 wells
- MW-31 (OT069b/SS030): annual, LTMP well to be moved to Spring sampling rotation with other non-OU1 wells
- MW-34 (OT069c/SS030): LTMP trigger well to be moved to Spring sampling rotation with other non-OU1 wells
- MW-35 (OT069b/SS030): Five-Year Review, LTMP trigger well to be moved to Spring sampling/Five-Year rotation with other non-OU1 wells
- MW-36 (OT069b/SS030): Five-Year Review, LTMP trigger well to be moved to Spring sampling/Five-Year rotation with other non-OU1 wells
- MW-43 (OT069e/SS030): LTMP trigger well to be moved to Spring sampling rotation with other non-OU1 wells
- MW-44 (OT069e): Five-Year Review, LTMP trigger well to be moved to Spring sampling/Five-Year rotation with other non-OU1 wells
- MW-45 (OT069b): annual, LTMP well to be moved to Spring sampling rotation with other non-OU1 wells
- MW-48 (OT069e): annual, LTMP well to be moved to Spring sampling rotation with other non-OU1 wells
- MW-52 (OT069): to be moved to Spring sampling rotation with other non-OU1 wells
- MW-54 (SS030): added for a single event in Fall 2015.
- MW-55 (SS030): added for a single event in Fall 2015. Typically sampled during Spring rotation
- MW-57 (OT069c/SS030): LTMP trigger well to be moved to Spring sampling rotation with other non-OU1 wells
- MW-58 (OT069c): annual, LTMP well to be moved to Spring sampling rotation with other non-OU1 wells
- MW-65 (SS030): added for a single event in Fall 2015.

- MW-71 (OT069c): annual, LTMP well to be moved to Spring sampling rotation with other non-OU1 wells
- MW-74 (OT069e): annual, LTMP well to be moved to Spring sampling rotation with other non-OU1 wells
- MW-75 (OT069e): annual, LTMP trigger well to be moved to Spring sampling rotation with other non-OU1 wells
- MW-86 (SS030): added for a single event in Fall 2015. Typically sampled during Spring rotation
- MW-91 (OT069c/SS030): annual, LTMP well to be moved to Spring sampling rotation with other non-OU1 wells
- NZ-63 (OT071): added for a single event in Fall 2015. Typically sampled during Spring rotation
- NZ-81 (CG070): Consistently insufficient water for sampling
- NZ-89 (OT071): added for a single event in Fall 2015. Typically sampled during Spring rotation
- NZ-120 (OT071): added for a single event in Fall 2015. Typically sampled during Spring rotation
- NZ-122 (OT071): added for a single event in Fall 2015. Typically sampled during Spring rotation

Conclusion. In summary, a total of 144 wells (as shown in Table 1) will be sampled during the upcoming Fall 2016 basewide groundwater monitoring event. Groundwater sample analysis will include 123 VOC samples (EPA Method 8260B), 3 cation samples, 3 TDS samples, 34 chloride samples, 34 nitrate samples, 34 sulfate samples, 34 alkalinity samples, 34 field test samples (hydrogen sulfide and ferrous iron), 21 dieldrin samples (OT071 and LF012), and corresponding QA samples (Table 1). All of the wells will be gauged for depth-to-water or depth-to-product. Gauging and groundwater monitoring will be performed in accordance with the Draft UFP-QAPP (Shaw, 2012a). Sampling results from the Fall 2016 groundwater monitoring event will be reported in the 2016 Basewide Annual Monitoring and Operations Report for CERCLA and Non-CERCLA Sites.

Tables

Table 1 – Monitoring Well Summary, Fall 2016 Basewide Groundwater Monitoring Event

Figures

Figure 1 – Upper Aquifer Wells to be Sampled, Fall 2016

Figure 2 – Lower Aquifer Wells to be Sampled, Fall 2016

References

MWH, 2011, Final 2010 Basewide Annual Monitoring and Operations Report for CERCLA and Non-CERCLA Sites, George Air Force Base, California, August.

MWH, 2012, Final 2011 Basewide Annual Monitoring and Operations Report for CERCLA and Non-CERCLA Sites, George Air Force Base, California, August.

Shaw, 2013, Final 2012 Basewide Annual Monitoring and Operations Report for CERCLA and Non-CERCLA Sites, George Air Force Base, California, May.

Shaw, 2012a, Draft Uniform Federal Policy (UFP) Quality Assurance Project Plan (QAPP) Quality Program Plan – Volume 1, Former George Air Force Base, Victorville, California, August.

Table

Monitoring Well Summary Fall 2016 Basewide Groundwater Monitoring Event Former George Air Force Base, California

									Degth to Water	Free Product											
	Sampling	Frequency			Associated 5	Site(s)		Weil Laction	(Ratos)	35 92001	Scree	on Crecouis			Laborate	ny Analysis			Field Analys	18	
Monitoring g	pring Fas	S-YR Single Svent	CG078 ZZ081	01063 LF007	LF012 LF014	LP048 S10678	U1U71 25084	95000 Aquifer M.U .PL	2 Spring Fall 201	5 Spring Fall 201	interval (ft bgs)	Submerges Screen	Proposed Pump Placement	82608 Cations	TDS CI	NO, SO,	Alk Creation	H ₂ S	Fe2 All	, co,	Rationals
EW-6			1 .						131 55 132 88		160-230	† ·	195	T :	Retained from	Fall 2015 Event	1 1				OUT well scheduled for Fall sampling per BCT Workshop hed in August 2014, transmissive zone with highest contaminant concentrators or hydraulic conductivity
FT-03 FT-04								U	116.44 116.58 118.25 118.45		133-168 134-169	:	150 151								Site FT019, CU-1 source area well screeduled for Fat sampling per BC1 Workshop held in August 2014; confirms decay curve Site FT019, CU-1 source area well scheduled for Fat sampling per BC1 Workshop held in August 2014; confirms decay curve
FT-05 LW-1	- :		-:-					U L	112.80 118.00 48.50 50.37		117-127 64-103	-:-	122 84	:							Site FT019, OU-1 source area well scheduled for Fall sampling per BCT Workshop held in August 2014, confirms decay curve OU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014, plume boundary/compilance boundary, area representative of confaminated and unconfaminated geochemical settings
LW-3 LW-4	- :							FPA FPA	13.53 14.53 50.43 51.54		40-60 40-100	·	50 middle of wetted screen								OU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014, plume boundary/compliance boundary Moved from Spring to Fall
MVV-97 MVV-61				e				U	257 96 258.73 137.76 137.91		270-310 120-160 155-175	,	290 middle of wetted screen	-							OU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014, plume boundary/compliance boundary OT069 LTMP well added in Fall 2016 to Monitor VOC concentrations at the northern perimeter of the ST067b dissolved-phase plume
MW-102-OU1 MW-103-OU1							<u> </u>	U ·	131.45 131.65 119.32 119.58 104.52 104.58		110-134 114-134		middle of wetted screen								OU-1 source area well scheduled for Fall sampling per BCT Workshop held in August 2014, confirms decay curved OU-1 well Scheduled for Fall sampling per BCT Workshop held in August 2014, areas representative of contaminated and uncontaminated geochemical settings OU-1 well, Fall sampling, representative of contaminated and uncontaminated geochemical settings OU-1 well, Fall sampling, representative of contaminated and uncontaminated geochemical settings. Supports the monitoring of site hydrology, general chemistry sample to assess movement from the upper to the lower applier
MW-1168 MW-117								U	144 98 144.79 143.67 143.30	<u> </u>	140-160		middle of wetted screen middle of wetted screen		<u> </u>			1:	:		STIGSTUP SECAN Compliance well the product previously detected in well Monitor benzene concentrations with STOGTo plume, STOGTO PSCAP compliance well Monitor benzene concentrations with STOGTO plume, STOGTO PSCAP compliance well
MVV-118 MVV-119						- :		U	142.97 143.08 147.59 147.55	1 : :	140-160 140-160		middle of wetted screen middle of wetted screen	1:-	<u> </u>	: :		1:-		-	ST067to PSCAP compliance well, free product previously detected in well ST067to PSCAP compliance well, free product previously detected in well
MVV-120 MVV-121						- :		U	148.90 149.15 139.90 140.25		145-165 132-152		middle of wetted screen middle of wetted screen	-				-	-:-	-	ST067b PSCAP compliance well, free product previously detected in well Monitor upgradient of the ST067b benzene plume, ST067b PSCAP compliance well
MVV-123 MVV-124	: :					- :		U	153.75 153.58 143.70 143.91		146-161 135-155		middle of wetted screen middle of wetted screen		- :	: :	-	:	-		Monitor downgradient of \$10670 bertzene plume; \$10670 PSCAP compilance well Monitor downgradient of \$10670 bertzene plume; \$10670 PSCAP compilance well
MVV-125 MVV-126						- :		U	156.78 156.91 146.16 145.70		143.5-163.5 142-162		middle of wetted screen middle of wetted screen			: :		-			Non OU-1 well, ST0670 PSCAP compliance well ST0676 PSCAP compliance well, free product previously detected in well
MVV-127 MVV-128								U	148.70 156.68	 : :	140.5-165.5 145-165		middle of wetted screen middle of wetted screen	-	<u> </u>		-	-			STIG7a PSCAP compliance well, free product previously detected in well STIG57b PSCAP compliance well, free product previously detected in well
MW-129 MW-130								U	142 62 142.74 152.97 153.03 162.90 162.91		142-157 146-161 157-172		middle of wetted screen middle of wetted screen middle of wetted screen		<u> </u>	: :		-	-		Sun OU.1 welt, ST067b PSCAP compliance well Non OU.1 welt, ST067b PSCAP compliance well Non OU.1 welt, ST067b PSCAP compliance well Annitor southersatern extent of ST067b between plume, ST067b PSCAP compliance well
MW-132 MW-133				e				U U	159.79 159.86 140.22 140.21	 	154-169 140-155	 	middle of wetted screen middle of wetted screen middle of wetted screen	 	 		<u> </u>			+	wonters southeassem extent to a lab /a Genterie pounte, si lab /a is Lab /a is Lab /a comparance well Monitor brearce in concertations with STG676 plume, STG676 PSCAP compliance well Monitor for development of STG676 plume,
MW-134 MW-136								Ü	143.98 144.16 156.00 156.21		145-160 155-170	· ·	152 middle of wetted screen								woman ownrysdaen is store plunte, store in Study experience et al. of the store et al.
MVV-137 MVV-138								Ü	168 24 168.01 142.20 142.27		160-185 137-152		middle of wetted screen middle of wetted screen		- :						Non OU-1 well, ST067b PSCAP compliance well Non OU-1 well, ST067b PSCAP compliance well
MVV-139 MVV-140	: : :		-					Ü	149.77 150.30 154.03 154.05	1:1:	148-161 148-168	-	middle of wetted screen middle of wetted screen	1:				\vdash	=	-	Non CU-1 well, free product previously detected in well Non CU-1 well, free product previously detected in well
MVV-142 MVV-143	: :					:		L L	304.65 305.04 304.01 304.59		310-340 280-310	·	325 middle of wetted screen		- :	: :					Non CU-1 well; ST067b PSCAP compliance well Monitor vertical migration of ST067b benzene plume; Monitor delidin concentrations within Lower Aquiter C1071 plume; ST067b PSCAP compliance well
MVV-144 MVV-145						·		U	148.52 148.63 279.33		143-163 270 - 300		middle of wetted screen middle of wetted screen					·	•		Clean well between S1067b and O1071 piumes, S1067b PSCAP compriance well
MVV-146 MVV-147								L	140.92 288.33		136 - 156 310 - 340		middle of wetted screen 325								
MW-148 MW-149	:	- :					-	L.	72.37 122.45		230 - 260 210 - 240		245 225				:				
MW-150 MW-151								U L	161 U2 161.17 297.12 297.69		155.5-175.5 275-305 270 - 300		middle of wetted screen middle of wetted screen		<u> </u>		-				Auded in Fax 2015, High betrzene concentration detected in April 2014 ST067b PSCAP compilance well
MW-153 MW-153								L U	162.50 182.58 177.85 178.60		153-173 156-176		middle of wetted screen middle of wetted screen	1:				1:1	-:-		Non OU-1 well, \$10670 PSCAP compliance well Non OU-1 well, \$10670 PSCAP compliance well Non OU-1 well, \$10670 PSCAP compliance well
MW-155 MW-157								U .	184 92 185.00 188.01 188.11		157.5-187.5		middle of wetted screen middle of wetted screen								Non QU-1 wet, ST067b PSCAP compliance well Non QU-1 wet, ST067b PSCAP compliance well
MVV-158 MVV-159	: •		-			· ·	-:	U	171.91 171.99		160-180	-	middle of wetted screen middle of wetted screen		-		· .	<u> </u>		-	Non CU-1 well, S1067b PSCAP compliance well New well
MVV-160 MVV-161		:						U U L					middle of wetted screen middle of wetted screen				- :	-			New well New well
MVV-162 MVV-163	-	-						L					middle of wetted screen middle of wetted screen				:				New well New well
NZ-03 NZ-06			F			S	<u> </u>	U·	126.42 128.19 114.00 114.12 86.55 86.51		130-150 138-158 100-130	<u> </u>	148	 						_	OU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014, area representative of contaminated and uncontaminated geochemical settings GU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014, areas representative of contaminated and uncontaminated geochemical settings; confirms decay curve
NZ-11								U	111.03 110.95	†	115-145 120-150	-	130							+	OU-1 we's scheduled for Fall sampling per BCT Workshop held in August 2014, confirms decay curve OU-1 we's scheduled for Fall sampling per BCT Workshop held in August 2014, confirms decay curve OU-1 we's scheduled for Fall sampling per BCT Workshop held in August 2014, confirms decay curve
NZ-12 NZ-13 NZ-18	- :							L. U	146.61 148.30 120.61 120.95		155-185 122-182		179 127								Construction of the sampling per bot involved properties in register or incommission of the construction o
NZ-20 NZ-21			<u> </u>	 				Ü .	139.75 139.56 92.70 92.81		151-161		156 107	1:							OU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014, recalcitaria zone, confirms decay curve, general chemistry sample to assess movement from the upper to the lower aquifer OU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014, plume boundarycompliance boundary category, general chemistry sample to assess movement from the upper to the lower aquifer
NZ-22 NZ-23	- 1 :		1:					U ·	94.96 95.04 116.74 116.93		131-141 135-145		136 140								OU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014; confirms decay curve OU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014; confirms decay curve
NZ-24 NZ-25	- :							U	112 00 112.03 91.42 91.51		130-140 110-120	:	135 115								GUT well scheduled for Fall sampling per BCT Workshop hed in August 2014, confirms decay curve OUT well scheduled for Fall sampling per BCT Workshop hed in August 2014, supports monthoring of sate hydrology, confirms decay curve
NZ-27 NZ-28A								U ·	62.28 61.21 58.76 58.91		77-87 57-87		82 middle of wetted screen								OU- I well scheduled for Fall sampling per BOT Workshop held in August 2014, areas representative of confaminated/unconfaminated geochemical settings, confirms decay curve OU-1 well scheduled for Fall sampling per BOT Workshop held in August 2014, supports the monitoring of site hydrology OU-1 well scheduled for Fall sampling per BOT Workshop held in August 2014, supports the monitoring of site hydrology.
NZ-30 NZ-31								U ·	159.79 146.74 147.18		150-160 145-155		middle of wetted screen middle of wetted screen	÷							OU-1 well scheduled for Pall sampling per BCT Workshop held in August 2014, confirms decay curve OU-1 well scheduled for Pall sampling per BCT Workshop held in August 2014, transmissive zone with highest contaminant concentrations or hydraulic conductivity
NZ-32 NZ-33								U	103.87 102.40 121.12 121.45		116-136 155-165		126 160								OU-1 well, Fall sampling , transmissive zone with highest contaminant concentrations or hydraulic conductivity, confirms decay curve, general chemistry sample to assess movement from the upper to lower aquifer OU-1 source area well scheduled for Fall sampling per BCT Workshop held in August 2014, areas representative of contaminated and uncontaminated geochemical settings
NZ-35 NZ-36								U U	97.13 97.20 95.54 95.81 106.08 106.18		92-102 105-115 120-130		middle of wetted screen 110 125	1::-						#	OU-1 well scheduled für Fall sampling per BCT Workshop heid in August 2014, confirms deleay curve OU-1 well scheduled für Fall sampling per BCT Workshop heid in August 2014, areas representable of confaminated and uncontaminated geochemical settings OU-1 well scheduled für Fall sampling per BCT Workshop heid in August 2014, transmissive zone with indirect confaminant concentrations or in-pravaile conductivity, confirms decay curve
NZ-37 NZ-39								L. U	106.76 108.71 109.29 109.53		132-142 116-136		137							+	Out - I were streamed for Fall sampling per BU. I workshop need in August 2014, blame boundayyor or planned boundayy. Out - I were streamed for Fall sampling per BOT Workshop held in August 2014, planne boundayyor planned boundayy Out - I were streamed for Fall sampling per BOT Workshop held in August 2014, frammissive zone with highest containment concentrations or hydraulic conductivity, confirms decay curve
NZ-41 NZ-43	1:1							L	75.95 78.00 114.93 115.02	1	110-125	1	117 142	1:-				1	_	-	Out - West scheduled for Fall sampling per BCT Workshop held in August 2014, plane boundary/compliance boundary Out - West scheduled for Fall sampling per BCT Workshop held in August 2014, plane boundary/compliance boundary Out - West scheduled for Fall sampling per BCT Workshop held in August 2014, irrammissive zone with highest containment concentrations or hydraulic conductivity, confirms decay curve
NZ-44 NZ-48	1:		: -				 		220.36 221.52 108.58 110.61	 	252-273 140-160	+:	162 150	 				\vdash	-	+	GU-1 wed scheduled for Fill sampling per BCT Workingh held in August 2014, plume boundary/compliance boundary. GU-1 wed scheduled for Fill sampling per BCT Workingh ped an August 2014, plume boundary/compliance boundary, was representative of contaminated and uncontaminated geochemical settings.
NZ-49 NZ-60	- :							U	110.72 110.86 208.75 209.31		117-137 235-275	- :	127 255					\vdash			GU-1 well scheduled for Fall sampling per BC1 Workshop held in August 2014, plane boundary/compliance boundary category GU-1 well scheduled for Fall sampling per BC1 Workshop held in August 2014, plane boundary/compliance boundary GU-1 well scheduled for Fall sampling per BC1 Workshop held in August 2014, plane boundary/compliance boundary GU-1 well scheduled for Fall sampling per BC1 Workshop held in August 2014, plane boundary/compliance boundary GU-1 well scheduled for Fall sampling per BC1 Workshop held in August 2014, plane boundary/compliance boundary GU-1 well scheduled for Fall sampling per BC1 Workshop held in August 2014, plane boundary/compliance boundary/compli
NZ-51 NZ-52	- :		:					U U	140.35 140.64 155.70 155.02		131-152 142-162		middle of wetted screen middle of wetted screen	1:							OUT well scheduled for Fall sampling per BCT Workshop hed in August 2014, plume boundary/compliance boundary/category OUT well scheduled for Fall sampling per BCT Workshop hed in August 2014, plume boundary/compliance boundary/category OUT well scheduled for Fall sampling per BCT Workshop hed in August 2014, plume boundary/compliance boundary/category OUT well scheduled for Fall sampling per BCT Workshop hed in August 2014, plume boundary/compliance boundary/category
NZ-54 NZ-55								U	130.85 131.12 115.70 NA		125-145 108-128		middle of wetted screen middle of wetted screen	;							GU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014, areas representative of contaminated and uncontaminated geochemical settings List Lived is scheduled for Fall sampling per BCT Workshop held in August 2014, organic and scenarious per scheduled for personal per BCT Workshop held in August 2014, organic and scenarious per
NZ-56 NZ-57			:					U L	122.10 121.92 95.81 97.90		111-131 102-122		middle of wetted screen 112					H			Out I well is cheduled for Fall sampling per BCT Workshop held in August 2014, continus decay curve Out I well is cheduled for Fall sampling per BCT Workshop held in August 2014, area representative of contaminated and uncontaminated geochemical settings
NZ-58 NZ-64							<u> </u>	<u> </u>	138.20 139.78 274.20 264.06	_	142-163 277 - 297 268 - 288	† · · ·	152 287	<u> </u>			<u> </u>			_	LTMP annual monitoring, plume boundary/compilance boundary
NZ-66 NZ-67		- -	.				-	U U	264.06 46.00 71.87 72.00		268 - 268 65 - 85 65-86	+ • • • • • • • • • • • • • • • • • • •	75 middle of wetted screen					\vdash		-	CU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014, plume boundary/compliance boundary category
NZ-68 NZ-69								U	132.87 133.14 118.10 119.98		122-142 132-152		middle of wetted screen 142								Out - Wes scheduled for Pall sampling per BUT Workshop held in August 2014, plume countary/compliance sourchary caregory Out - West scheduled for Pall sampling per BOT Workshop held in August 2014, plume boundary/compliance boundary category Out - West scheduled for Pall sampling per BOT Workshop held in August 2014, grain expresentative of contaminated and succontaminated georhemical settings
NZ-72 NZ-76								L	198.53 199.36 95.05 96.70	 	200-220 136-156		210 146	1:-				\vdash	_	1	OU- twell scheduled for Fall sampling per BCT Workshop held in Judyst 2014, plume boundary/compliance boundary. But I super scheduled for Fall sampling per BCT Workshop held in Judyst 2014, plume boundary/compliance boundary. But I super scheduled for Fall sampling per BCT Workshop held in Judyst 2014, plume boundary/compliance boundary. But I super scheduled for Fall sampling per BCT Workshop held in Judyst 2014, plume boundary/compliance boundary. But I super scheduled for Fall sampling per BCT Workshop held in Judyst 2014, plume boundary/compliance boundary. But I super scheduled for Fall sampling per BCT Workshop held in Judyst 2014, plume boundary/compliance boundary. But I super scheduled for Fall sampling per BCT Workshop held in Judyst 2014, plume boundary/compliance boundary. But I super scheduled for Fall sampling per BCT Workshop held in Judyst 2014, plume boundary/compliance boundary. But I super scheduled for Fall sampling per BCT Workshop held in Judyst 2014, plume boundary/compliance boundary. But I super scheduled for Fall sampling per BCT Workshop held in Judyst 2014, plume boundary/compliance boundary. But I super scheduled for Fall sampling per BCT Workshop held in Judyst 2014, plume boundary/compliance boundary. But I super scheduled for Fall sampling per BCT Workshop held in Judyst 2014, plume boundary. But I super scheduled for Fall sampling per BCT Workshop held in Judyst 2014, plume boundary. But I super scheduled for Fall sampling per BCT Workshop held in Judyst 2014, plume boundary. But I super scheduled for Fall scheduled f
NZ-77 NZ-80	. :							FPA L	31.78 33.29 245.02 246.45		68-98 258-276		78 268								QU-1 west streduced for Fill sampling per BOT Workshop herd in August 2014, plume coundary/compliance boundary. LIVE monitoring for the shadful, loss septined in Fall for stressiness zone with inspless containment concentrations or flyurautic conductivity, general chemistry sample to assess movement from the upper to the lower aquifer.
NZ-82 NZ-83			÷					U U	111 01 111.02 116.67 116.66		107-122 112-124		middle of wetted screen middle of wetted screen								GUT was Fall sampling, seas impresentative of contaminated and uncontaminated genchmical settings, general chemistry sample to assess movement from the upper to the lower aquifer, dedicated pump removed OUT- was scheduled for Fall sampling per BCT Workshop bein a August 2014 areas representative of contaminated and uncontaminated aspectation pump.
NZ-84 NZ-85	- :		-:					L	231.81 233.20 172.25 173.73		241-256 190-205		248 197								CU-1 well, Fall sampling, transmissive zone with highest contaminant concentrations or hydraulic conductivity, general chemistry sample to assess movement from the upper to the lower aquifer OU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014, plume boundary tompliance boundary
			1					U	121.83 61.29		117 - 137 55 - 70		middle of wetted screen middle of wetted screen				_ ·	1			

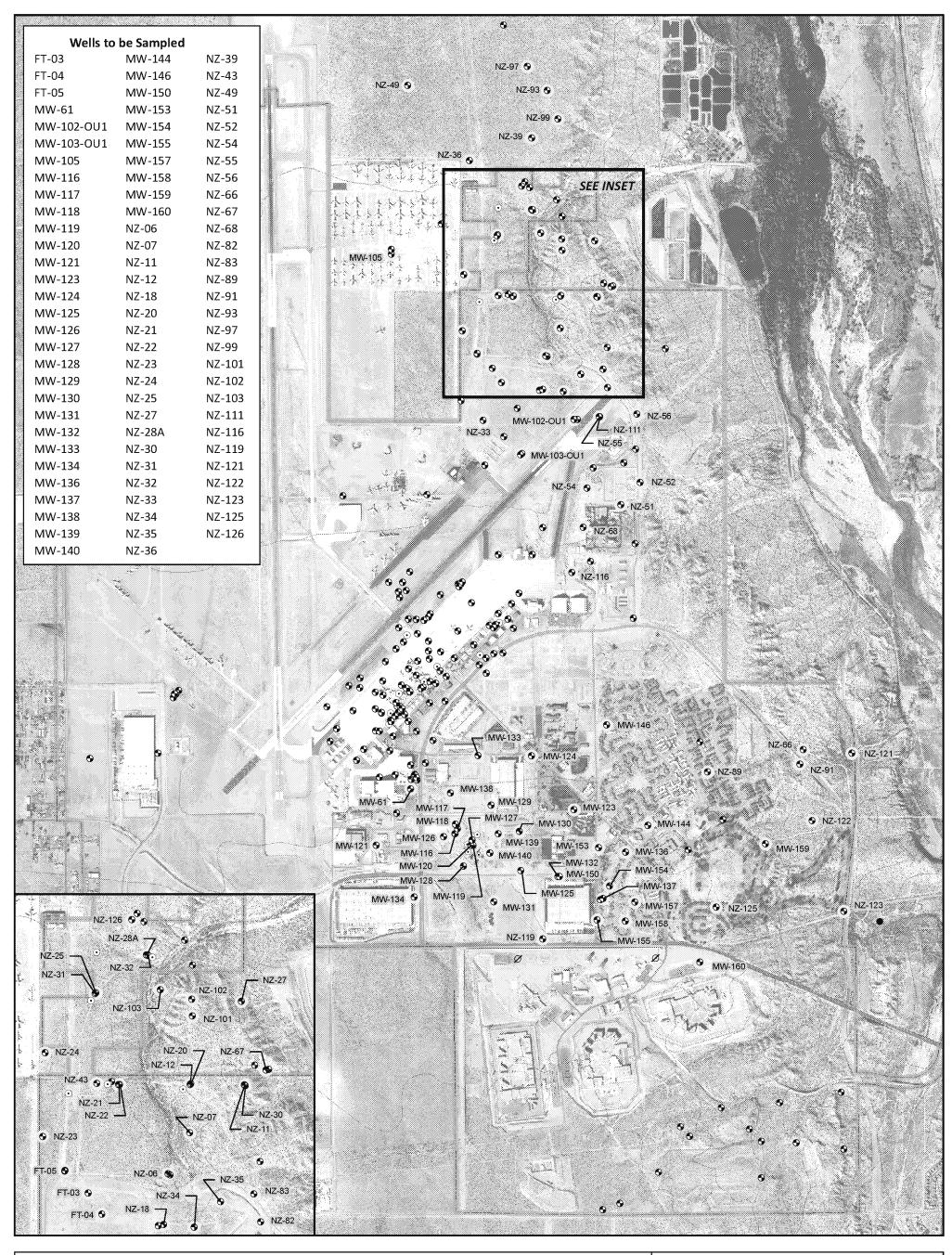
Table 1

Monitoring Well Summary Fall 2016 Basewide Groundwater Monitoring Event Former George Air Force Base, California

		000000000000000000000000000000000000000									*******										
										Depth to V	ater Free Procu										
	និសាធុមីកដ្ឋ Fred	equency			Associated Sit	e(S)			Weil Lacation	OR Stoc		Sera	en Krecolis		1	Estrorate	ry Ansiysis		Field Analysis		
															1						
Manitanna	1 1	Single				1 1	- 1 1					Interval	I conserved	Proposed Pump					1 1		
Well Epsy	ing Pas S-Y	YR Single	CG078 23081	01063 LF007	LF012 LF014 S	.F048 ST067E 0	21071 25084	95000	Aquiter NSU PLZ	Spring Fa	12015 Spring Fasi	015 (ft bgs)		Placement	82608 Cations	T09 Ct	NO, SO,	Alk Sielena H	S Fe2 Alk	co.	Rationale
N7.93										21.58 12		115-135		middle of wetted screen	1 .					-	OU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014; transmissive zone with highest contaminant concentrations or hydraulic conductivity, supports the monitoring of site hydrology
NZ-97	+ - + -									08.32 10		97-117		middle of wetted screen	 . 					+	OU-1 well moved to Fall sampling schedule per BCT Workshop held in August 2014; plume boundary/compliance boundary category, supports monitoring of site hydrology
NZ-98		_							L 2	17.08 21	7.99	226-246	+	236	T - T					+	OU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014, plume boundary/compliance boundary
NZ-99	,								U .	07.94 10	7.21	96-116		middle of wetted screen	,					1	CU-1 well moved to Fall sampling schedule per BCT Workshop held in August 2014, distal/fringe portion of plume; supports monitoring of site hydrology
NZ-100									L 1	35.55 13	6.93	160-180		170							Added in Fall 2015plume boundary/compliance boundary
NZ-101									U 1	03 35 10	3.34	91-111		middle of wetted screen	·						COU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014, plume boundary/compliance boundary category
NZ-102									U 1	03.55 10	3.52	96-116 57-77		middle of wetted screen	<u> </u>						Out 1 well scheduled for Fall sampling per BCT Workshop held in August 2014, transmissive zone with highest contaminant concentrations or hydraulic conductivity, confirms decay curve OU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014, supports monitoring of site hydrology, confirms decay curve
NZ-103 NZ-104	$+ \div +$:							45.12 4 00.66 10		117-137		67	 			ļI			OUT- well scheduled for Fall sampling per BCT Workshop held in August 2014, supports monitoring of site hydrology, continns decay curve OUT- well scheduled for Fall sampling per BCT Workshop held in August 2014, plane be bounday/compliance boundary.
NZ-105D			- :	 						57.87 15		170-190		180	+:						OCH: were screamen in an assimpling per BCT Workshop held in August 2014, area representative of contaminated and uncontaminated geochemical settings (U-1 well scheduled for Fall sampling per BCT Workshop held in August 2014, area representative of contaminated and uncontaminated geochemical settings
NZ-106	+	_						-	i s	02.32 20		210-230		220						+	COL-1 well scheduled for Fall sampling per BOT Workshop held in August 2014, distal/finge portions of the plane; are representative of contaminated and uncontaminated geochemical settings
NZ-107	1 .									50.79 25		260-280		270	1						LTMP monitoring for landful (Spring sampling), to be sampled in Fall too, transmissive zone with highest contaminant concentrations or hydraulic conductivity, general chemistry sample to assess movement from the upper to the lower aquifer
NZ-108	1 - 1				.		-		L :	267 17 25	8.28	258-278	· •	268							Added in Fait 2015 per a suggestion from the RWOCB consultant during a 9/22/2015 meeting on the OT071 site.
NZ-111	·								U 1	16.67 11		100-140		middle of wetted screen	·						OU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014; areas representative of contaminated/uncontaminated geochemical settings; confirms decay curve
NZ-112	· .								L 1	72.93 17	3.61	180-200		190	I .						LTMP monitoring for the landfill (only applies to Spring sampling), to be sampled in Fall too, plume boundary/compliance boundary
NZ-113									L	26.46 12	7.30	133-153 120-140	<u> </u>	143	1 .					4	LTMP monitoring for the landfill (only applies to Spring sampling), to be sampled in Fall too, plume boundary/compliance boundary
NZ-116 NZ-110	+:+			\vdash			\rightarrow	\vdash		29.87 13 66.91 16		120-140		middle of wetted screen middle of wetted screen	-					+	CUL1 well scheduled for Fill sampling per BCT Workshop held in August 2014, confirms decay curve. STURED RESCRIPTION COMMISSION SET STURED RESCRIPTION CONTINUES OF THE STURED
NZ-119 NZ 121	$+\cdot+$	+ .		\vdash			.	\vdash		26.84	0.01	148-168		middle of wetted screen middle of wetted screen	<u> </u>		· · ·	 	+ - + -	+	o nous because men
NZ-122		-+:-		 			\div			60.27		55 - 75		middle of wetted screen	 	 	 	 		+	
NZ-123				 						47.45		33 - 48		middle of wetted screen	+					+	
NZ-125		- 							U 1	49.38		140 - 160	1	middle of wetted screen	T					+	
NZ-126									U	07.52 10	7.61	115-135		125	1						OU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014; transmissive zone with highest contaminant concentrations or hydraulic conductivity
NZ-127b	· .		•						L 2	51.08 25	2.02	290-316		300							Ou-1 well is cheduled for Fall sampling per BCT Workshop held in August 2014, plume boundary/com pliance boundary
NZ-127c	<u> </u>								L 2	51 02 25	2.01	340-360		350	<u> </u>						CU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014; plume boundary/compliance boundary
NZ-129b								\perp	L 2	231.72 23	3.01	290-310	<u> </u>	300	·						OU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014, area representative of contaminated and uncontaminated geochemical settings
NZ-1290 NZ-130a	$+\div+-$		·						<u> </u>	31.65 23 54.95 15	2.58	320-340 155-175		330	 . 	ļ					OU.1 well scheduled for Fall sampling per DET Workshop hed in August 2014, area representative of contaminated and uncontaminated sectional settings. OU.1 well scheduled for Fall sampling per DET Workshop hed in August 2014, plante boundary compliance boundary category, general retiremity sample to assess inovement from the upper to the lower aquiter
NZ-1308 NZ-133h	$+$ \div $+$ $-$		-:							54.95 15		65-85		middle of wetted screen	 -:						OCH: well scheduled for Fall sampling per BCT workshop ned in August 2014, julinet boundary/compliance educations, general creamsity sample to assess introduced in the lower adjunction of the lower
N7.138	$+\cdot\cdot$	_	-					\vdash	1 1	36.26 13		130-150	+	middle of wetted screen	1 .			- - -		+-	OUT west, fall assigning transitions between with highest contaminant concentration or hydraulic concurrence occurrence.
NZ-139	1.1					-			L 1		0.63	130-150	1	middle of wetted screen	1.					+	GU-1 well. Fall sampling: transmissive zone with highest contaminant concentrations or hydraulic conductivity, supports monitoring of site hydrology, general chemistry sample to assess movement from the upper to the lower aguifer
NZ-140	- · ·								FPA	3.02 12	7.71	2-12		middle of wetted screen	T						OU-1 well scheduled for Fall sampling per BCT Workshop held in August 2014, plume boundary/compliance boundary, supports monitoring of site hydrology, general chemistry sample to assess movement from the upper to the lower aquifer
OW-1	· ·									10.57		12-28		26	1 ·						OU-1 well is cheduled for Fall sampling per BCT Workshop held in August 2014; plume boundary/compliance boundary
OW-6									FPA		4.35	26-34		30							OU-1 well moved to Fall sampling schedule per BCT Workshop held in August 2014
RZ-02			· .						<u> </u>	46.18 24	6.88	310-330		320	<u> </u>	L					COL-1 well scheduled for Fall sampling per BCT Workshop held in August 2014; plume boundary/compliance boundary: unknown obstruction in well during Fall 2014 sampling event
TOTALS =	Tell Mari Carres														T 100		6 Totals				
10122					1 0	1 26	29 0	Α.Τ	16				72	1			24 24	24 21 2	4 24 0	1 n	
EX-01	T T			4 0	1 0	1 35	29 0	Ü	15				72		123 3	T Retained from	34 34 Fall 2016 Saloni	34 21 3	4 34 0	0	
EX-10 ·		I		4 0	1 0	1 35	29 0		15 U	112	8 06	120-165			Wells M	T Retained from	34 34 Fali 2015 Sampi	34 21 3 ng Event	4 34 0	0	Added in Fall 2015 as a single event
5 Day 00				4 0	1 0	1 35	29 0	•	U U U	12	8.06 7.13	120-165 125-140			Walls M	OT Retained from	34 34 Fall 2015 Sampi	34 21 3 ng Event	4 34 0	0	Apped in Fail 2015 as a single event. Apped in Fail 2015 as a single event.
8VIVV-28				4 0	1 0	1 35	29 0	· · ·	U U U U U	12 12	8.06 7.13 1.51	120-160			Walls M	T Retained from	34 34 Fail 2015 Sampi	34 21 3 ng Event	4 34 0	0	Added in Fall 2015 as a single event. Added in Fall 2015 as a single event. Added in Fall 2015 as a single event. Like Tingle event to be moved to be single ovent.
MW-30				b	1 0	1 35	29 0	· · · · · · · · · · · · · · · · · · ·	U U U U U U U U U U U U U U U U U U U	12 12 12 12	8.06 7.13 1.51 7.91	120-160 120-160			Walls Hi	T Retained from	34 34 Fail 2015 Sangol	34 21 3	4 34 0	0	Added in Fall 2015 as a single event. Added in Fall 2015 as a single event. E.TMP trigger well to be moved to Spring violation with other non-DU1 wells. Fanual, E.TMP trigger well to be moved to Spring ampling rotation with other non-DU1 wells.
MVV-31 •				b c	1 0	1 35	29 0	· · · · · · · · · · · · · · · · · · ·	U U U U U U U U U U U U U U U U U U U	12 12 13 14 12	8.06 7.13 1.51 7.91 3.21	120-160 120-160 120-160			Walls M	T Retained from	34 34 Fall 2015 Sampl	34 21 3	4 34 0	0	Added in Fail 2015 as a single event. Added in Fail 2015 as a single event. Added in Fail 2016 as a single event. Full Progress with to be moved to Spring and protection with other non-OUT wells. Annual, LTMP well to be moved to Spring as maing rotation with other non-OUT wells. Annual, LTMP well to be moved to Spring as maing rotation with other non-OUT wells.
MVV-31 • MVV-34 •				b c b c c	1 0	1 35	29 0	· · · · · · · · · · · · · · · · · · ·	U U U U U U U U U U U U U U U U U U U	10 12 10 10 10 12	8.06 7.19 1.51 7.91 3.21 6.21	120-160 120-160 120-160 120-160			Walls Hi	OT Retained from	34 34 Fail 2015 Sampl	34 21 3	4 34 0	0	Added in Fail 2015 as a single event Added in Fail 2016 as a single event Added in Fail 2016 as a single event LTNP ingger wells to be moved to Spring raddion with other non-OU1 wells Annual, LTNP well to be moved to Spring sampling raddion with other non-OU1 wells Annual, LTNP well to be moved to Spring sampling raddion with other non-OU1 wells LTNP ingger well to be moved to Spring sampling raddion with other non-OU1 wells LTNP ingger well to be moved to Spring sampling raddion with other non-OU1 wells LTNP ingger well to be moved to Spring sampling raddion with other non-OU1 wells
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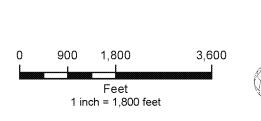
- Notes:
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 FP Pload Plain Aquire
 GEO Genotemical parameters include chloride, nitrate, sulfate, total dissolved solids.
 GEO Extra Additional georemical parameters needed for geochemical evaluation may include:
 total sidelings, liftend major cathons (calcium, magnessum, sodium, potassium), and field measurements of sulfide and temous iron
 L Lover Aquirer
 T Incrinorement.
 U Upper Aquirer
 VOCS Violatile organic compounds.
 Added as a One-Time Event during Fail 2016

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- Free Product Extraction Well
- ▲ Vapor Monitoring Point
- Groundwater Monitoring Well
- Vapor Extraction Well
- Vapor Monitoring Well
- Water Supply Well
- Ø Inactive Supply Well
- Well to be Sampled October 2016
- Topogaphic Contour (ft msl)
 - Former George Air Force Base Boundary



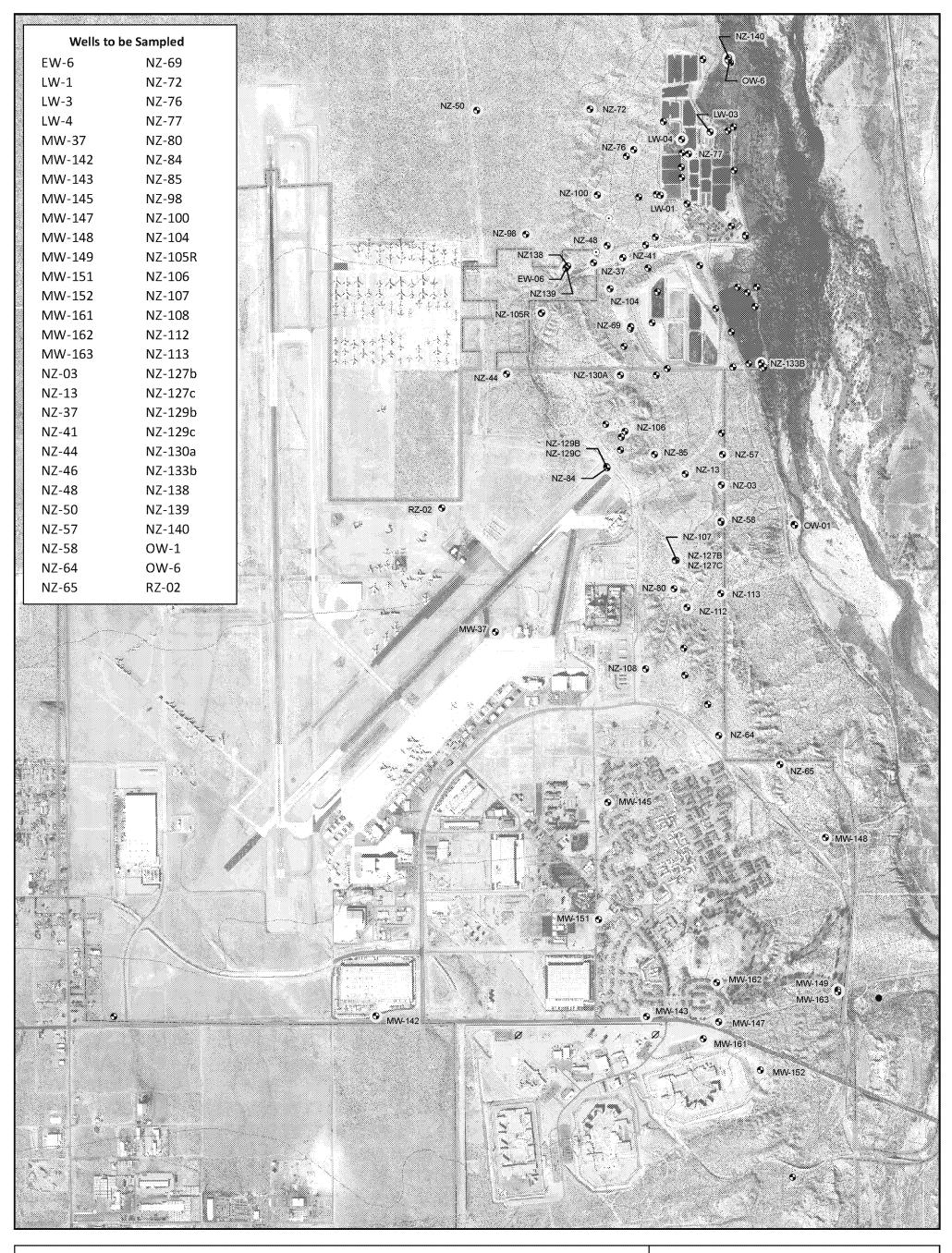


CB&I Federal Services LLC 2410 Cherahala Blvd Knoxville, TN 37932

FORMER GEORGE AIR FORCE BASE VICTORVILLE, CALIFORNIA

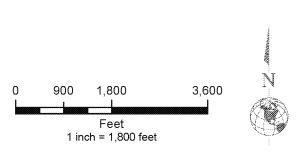
FIGURE 1

WELLS TO BE SAMPLED FALL 2016 UPPER AQUIFER





- Free Product Extraction Well
- Groundwater Monitoring Well
- Water Supply Well
- Ø Inactive Supply Well
- Well to be Sampled October 2016
- Topogaphic Contour (ft msl)
- Former George Air Force Base Boundary





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FORMER GEORGE AIR FORCE BASE VICTORVILLE, CALIFORNIA

FIGURE 2

WELLS TO BE SAMPLED FALL 2016 LOWER AQUIFER